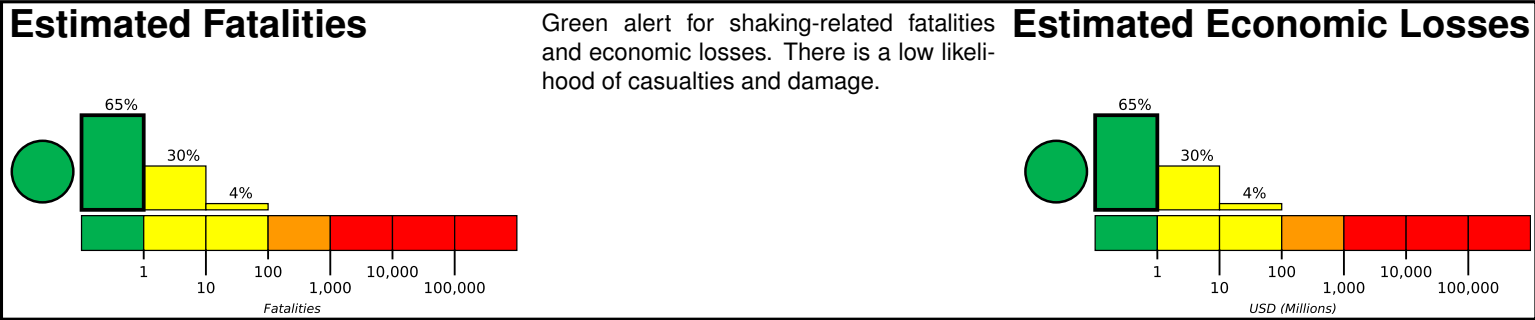


M 5.4, 76 km N of Namuac, Philippines

Origin Time: 2023-08-01 08:03:21 UTC (Tue 16:03:21 local)
Location: 19.3035° N 121.2047° E Depth: 40.2 km

PAGER Version 2

Created: 2 hours, 4 minutes after earthquake

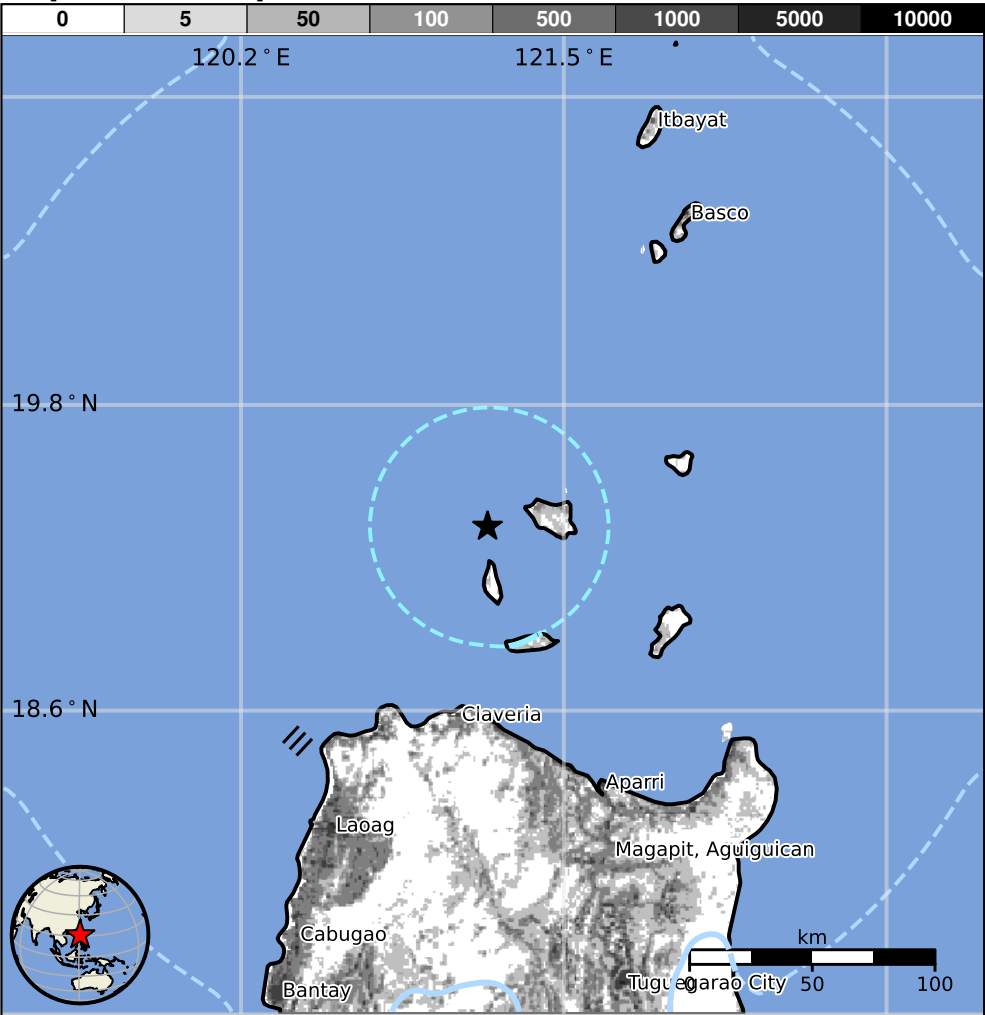


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	2,796k	16k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are unknown/miscellaneous types and heavy wood frame construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1977-03-18	305	7.2	VII(520k)	1
2006-12-26	283	7.0	VIII(26k)	2
1990-07-16	398	7.7	IX(893k)	2k

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
III	Claveria	11k
III	Namuac	3k
III	Abulug	2k
III	Bangui	2k
III	Pamplona	2k
III	Pagudpud	5k
III	Laoag	102k
III	Batac City	54k
III	Solana	71k
III	Tuguegarao	115k
III	Vigan	49k